WHAT IS CLAIMED IS:

1. Alkali-free aluminoborosilicate glass having a coefficient of thermal expansion $\alpha_{20/300}$ of between 2.8 x 10^{-5}/K and 3.8 x 10^{-6}/K, which has the following composition (in % by weight, based on oxide):

SiO_2	> 58 - 65
B_2O_3	> 6 - 10.5
Al_2O_3	> 14 - 25
MgO	0 - < 3
CaO	0 - 9
SrO	0.1 - 1.5
BaO	> 5 - 8.5
with SrO + BaO	≤ 8.6
with MgO + CaO + SrO + BaO	8 - 18
ZnO	0 - < 2

2. Aluminoborosilicate glass according to Claim 1, characterized in that it comprises at least 18% by weight, preferably more than 18% by weight, of Al_2O_3.

3. Aluminoborosilicate glass according to Claim 1 or 2, characterized by the following composition (in % by weight, based on oxide):

SiO_2	> 58 - 64.5
B_2O_3	> 6 - 10.5
Al_2O_3	> 18 - 24
MgO	0 - < 3
CaO	1 - < 8
SrO	0.1 - 1.5
BaO	> 5 - 8
with SrO + BaO	< 8.5
with MgO + CaO + SrO + BaO	8 - 18
ZnO	0 - < 2

4. Aluminoborosilicate glass according to at least one of Claims 1 to 3, characterized in that it comprises at least 20.5% by weight of Al_2O_3.

5. Alkali-free aluminoborosilicate glass having a coefficient of thermal expansion $\alpha_{20/300}$ of between 2.8 x 10^{-6}/K and 3.6 x 10^{-6}/K, which has the following composition (in % by weight, based on oxide):

SiO_2	> 58 - 64.5
B_2O_3	> 6 - 10.5
Al_2O_3	20.5 - 24
MgO	0 - < 3
CaO	2.5 - < 8
SrO	0.1 - 3.5
BaO	> 5 - 7 5
with SrO + BaO	≤ 8.6
with MgO + CaO + SrO + BaO	8 - 18
ZnO	0 - < 2

6. Aluminoborosilicate glass according to at least one of Claims 1 to 5, characterized in that it comprises at least 21.5% by weight of Al_2O_3.

7. Aluminoborosilicate glass according to at least one of Claims 1 to 6, characterized in that it comprises more than 8% by weight of B_2O_3.

8. Aluminoborosilicate glass according to at least one of Claims 1 to 7, characterized in that it comprises at least 0.1% by weight of ZnO.

9. Aluminoborosilicate glass according to at least one of Claims 1 to 8, characterized in that it additionally comprises:

ZrO_2	0 - 2
TiO_2	0 - 2
with ZrO_2 + TiO_2	0 - 2

As_2O_3	0 - 1.5
Sb_2O_3	0 - 1.5
SnO_2	0 - 1.5
CeO_2	0 - 1.5
Cl^-	0 - 1.5
F^-	0 - 1.5
SO_4^{2-}	0 - 1.5
with $As_2O_3 + Sb_2O_3 + SnO_2 + CeO_2 + Cl^- + F^- + SO_4^{2-}$	≤ 1.5

10. Aluminoborosilicate glass according to at least one of Claims 1 to 9, characterized in that it is free of arsenic oxide and antimony oxide, apart from unavoidable impurities, and that it can be produced in a float plant.

11. Aluminoborosilicate glass according to at least one of Claims 1 to 10, which has a coefficient of thermal expansion $\alpha_{20/300}$ of $2.8 \times 10^{-6}/K$ - $3.6 \times 10^{-6}/K$, a glass transition temperature Tg of > 700°C and a density ρ of < 2.600 g/cm^3.

12. Use of the aluminoborosilicate glass according to at least one of Claims 1 to 11 as substrate glass in display technology.

13. Use of the aluminoborosilicate glass according to at least one of Claims 1 to 11 as substrate glass in thin-film photovoltaics.